

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/943,685	08/30/2001	Terry Loughrin	6039-000293	6039-000293 1262	
27572	7590 03/10/2003				
HARNESS, DICKEY & PIERCE, P.L.C.			EXAMINER		
P.O. BOX 82 BLOOMFIE	8 LD HILLS, MI 48303	DUNWOODY, AARON M			
			ART UNIT	PAPER NUMBER	
			3679		
			DATE MAILED: 03/10/2003	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)				
Office A - 4: Comment	09/943,685	LOUGHRIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Aaron M Dunwoody	3679				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>02 J</u>	<u>anuary 2003</u> .					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdrav						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4,6-8,10 and 11</u> is/are rejected.						
7)⊠ Claim(s) <u>5 and 9</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	election requirement.					
9) The specification is objected to by the Examiner	•					
10) The drawing(s) filed on is/are: a) accep		miner.				
Applicant may not request that any objection to the						
11)⊠ The proposed drawing correction filed on <u>02 January 2003</u> is: a)⊠ approved b)∐ disapproved by the Examiner.						
If approved, corrected drawings are required in rep						
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Application	on No				
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list of the certified copies of the prior application. 	reau (PCT Rule 17.2(a)).	•				
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	e) (to a provisional application).				
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				
Patent and Trademark Office						

Art Unit: 3679

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-4, 6-8, 10 and 11 are rejected under 35 U.S.C. 102(e) as being anticipated by US patent 6283867, Aota et al.

In regards to claim 1, in figures 9-12, Aota et al discloses a drive shaft assembly for interconnecting a driving component of an agricultural machine and a driven component of an agricultural implement, comprising a first shaft; a second shaft engaging the first shaft for enabling torque transmission and relative axial sliding motion therebetween; and a joint component of a universal joint operably interconnecting one of the first and second shafts to one of the agricultural driving and driven components, the joint component is both rotatable through a specified range of rotation and is fixed from axial movement relative to one of the second shaft, the agricultural driving component of the agricultural machine and the agricultural driven component of the agricultural implement.

Art Unit: 3679

In regards to claim 2, in figures 9-12, Aota et al discloses the joint component including axial grooves and the second shaft includes an end portion having radially extending axial teeth for engaging the grooves and thereby enabling the specified range of relative rotation.

In regards to claim 3, in figures 9-12, Aota et al discloses the grooves being formed within a bore of the joint component and the teeth extend outward from the end portion, whereby the end portion is received into the bore for enabling engagement between the teeth and the grooves.

In regards to claim 4, in figures 9-12, Aota et al discloses the grooves being formed in an outer circumferential surface of the joint component and the teeth extend radially inward from the end portion, whereby the joint component is partially received into the end portion for enabling engagement between the teeth and the grooves.

In regards to claim 6, in figures 9-12, Aota et al discloses the joint component including axial grooves and one of the driving and driven components includes radially extending axial teeth for engaging the grooves and thereby enabling the specified range of relative rotation.

In regards to claim 7, in figures 9-12, Aota et al discloses the grooves being formed within a bore of the joint component and the teeth extend radially outward from one of the driven and driving components, whereby one of the driven and driving components is received into the bore for enabling engagement between the teeth and the grooves.

Art Unit: 3679

In regards to claim 8, in figures 9-12, Aota et al discloses the grooves being formed along a stub end of the joint component and the teeth extend radially inward within a bore of one of the driven and driving components, whereby the stub end is partially received into the bore for enabling engagement between the teeth and the grooves.

In regards to claim 10, in figures 9-12, Aota et al discloses the joint component being a universal joint yoke.

In regards to claim 11, in figures 9-12, Aota et al discloses the second shaft including a stub end interconnected thereto for operably interconnecting the joint component and the second shaft.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-8, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent 5672111, Schremmer et al.

In regards to claim 1, in figures 1-4, Schremmer et al discloses a drive shaft assembly for interconnecting a driving component of an agricultural machine and a driven component of an agricultural implement, comprising a first shaft; a second shaft engaging the first shaft for enabling torque transmission and relative axial sliding motion therebetween; and a joint component of a universal joint operably interconnecting one of the first and second shafts to one of the agricultural driving and driven components, the joint component is both rotatable through a specified range of rotation and is fixed from axial movement relative to one of the second shaft, the agricultural driving of the

Art Unit: 3679

agricultural machine component and the agricultural driven component of the agricultural implement.

In regards to claim 2, in figures 1-4, Schremmer et al discloses the joint component including axial grooves and the second shaft includes an end portion having radially extending axial teeth for engaging the grooves and thereby enabling the specified range of relative rotation.

In regards to claim 3, in figures 1-4, Schremmer et al discloses the grooves being formed within a bore of the joint component and the teeth extend outward from the end portion, whereby the end portion is received into the bore for enabling engagement between the teeth and the grooves.

In regards to claim 4, in figures 1-4, Schremmer et al discloses the grooves being formed in an outer circumferential surface of the joint component and the teeth extend radially inward from the end portion, whereby the joint component is partially received into the end portion for enabling engagement between the teeth and the grooves.

In regards to claim 6, in figures 1-4, Schremmer et al discloses the joint component including axial grooves and one of the driving and driven components includes radially extending axial teeth for engaging the grooves and thereby enabling the specified range of relative rotation.

In regards to claim 7, in figures 1-4, Schremmer et al discloses the grooves being formed within a bore of the joint component and the teeth extend radially outward from one of the driven and driving components, whereby one of the driven and driving

Art Unit: 3679

Page 6

components is received into the bore for enabling engagement between the teeth and the grooves.

In regards to claim 8, in figures 1-4, Schremmer et al discloses the grooves being formed along a stub end of the joint component and the teeth extend radially inward within a bore of one of the driven and driving components, whereby the stub end is partially received into the bore for enabling engagement between the teeth and the grooves.

In regards to claim 10, in figures 1-4, Schremmer et al discloses the joint component being a universal joint yoke.

In regards to claim 11, in figures 1-4, Schremmer et al discloses the second shaft including a stub end interconnected thereto for operably interconnecting the joint component and the second shaft.

Allowable Subject Matter

Claims 5 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments, filed 1/2/03, with respect to claim 1 have been fully considered and are not persuasive. The applicant argues:

The Aota reference neither discloses nor suggests the coupling of the Aola et al device with a tractor or an agricultural implement.

Art Unit: 3679

The examiner disagrees. Claims in a pending application should be given their broadest reasonable interpretation. In re Pearson, 181 USPQ 641 (CCPA 1974). So, implement can be defined as a device used in the performance of a task. Since, steering columns are generally known to reside in agricultural equipment by those having and not having skill in the art, then an agricultural implement can be defined as an agricultural device used in the performance of a task, such as turning a tractor's steering wheel connected to a steering column. Therefore, the Aola et al device meets the limitations of claim 1 of the instant application.

Applicant's arguments appear more limiting than the claims themslelves.

Applicant argues "free motion" but does not specifically claim free motion. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Art Unit: 3679

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Page 8

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Aaron M Dunwoody whose telephone number is (703)

306-3436. The examiner can normally be reached on Monday - Friday between 7:30

am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynne H Browne can be reached on (703) 308-1159. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

872-9302 for regular communications and (703) 872-9327 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

1113.

.amd

March 7, 2003